

Application No. (if known): 10/691,355

Attorney Docket No.: 08223/0200098-US0

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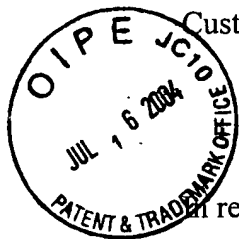
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Information Disclosure Statement (4 pages)  
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23 Documents  
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Customer No.: 07278

Docket No.: 08223/0200098-US0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of:

Thomás E. Palmer

Serial No.: 10/691,355

Filed: October 21, 2003

For: SYSTEM AND METHOD FOR N-DIMENSIONAL ENCRYPTION

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July 16, 2004

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed: (Check one of the boxes A-D)

- ☐ A. Within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.
- ☒ B. before the mailing date of a first office action on the merits, or a first office action after filing a request for continued examination.
- ☐ C. after (A) and (B) above, but before the mailing date of a final rejection, a notice of allowance, or any other action that closes prosecution, and Applicants have made

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the necessary statement in box "i" below or paid the necessary fee in box "ii" below.

(check one of the boxes "i" and "ii" below:)

- ☐ i. Counsel states that, upon information and belief, each item of information listed herein was either (a) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
- ☐ ii. A check for the fee set forth in 1. 17(p), presently believed to be \$180, is enclosed.
- ☐ D. after (A), (B) and (C) above, but before payment of the issue fee: Counsel states that, upon information and belief, each item of information listed herein was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS; or (ii) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
- ☐ i. A check for the fee set forth in 1.17 (p), presently believed to be \$180, is enclosed.

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO/SB/08) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A, B and/or C and fill in blanks, if appropriate.).

- ☒ A. Pursuant to the Notice issued by the United States Patent and Trademark Office dated July 11, 2003 waiving the requirements of 37 C.F.R. § 1.98(a)(2)(i), a copy/copies of the United States Patent on PTO/SB08 is/are not being submitted.
- ☐ B. Document(s) \_\_\_\_\_ is (are) deemed substantially cumulative to document(s) \_\_\_\_\_, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.
- ☐ C. Certain documents were previously cited by or submitted to the Office in the following prior applications, which are relied upon under 35 U.S.C. 120:

[SERIAL NO. & FILING DATE].

Applicant identifies these documents by attaching hereto copies of the forms PTO-892 and PTO/SB08 from the files of the prior application(s) or a fresh PTO/SB/08 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.

☐ 3. Document(s) \_\_\_\_\_ are not in the English language. In accordance with 1.98(c), Applicant states:

- ☐ An English translation of each document (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application is enclosed.
- ☐ A concise explanation of the relevance of document(s) \_\_\_\_\_ is found in the attached search report (see MPEP § 609 A(3)x).
- ☐ A concise explanation of the relevance of document(s) \_\_\_\_\_ is set forth as follows: [Insert concise explanation of relevance]
- ☐ A concise explanation of the relevance of document(s) \_\_\_\_\_ can be found on page(s) \_\_\_\_\_ of the specification.
- ☐ A concise explanation of document(s) \_\_\_\_\_ can be found on the attached sheet.

☐ 4. No explanation of relevance is necessary for documents in the English language (see MPEP § 609 A(3)).

☐ 5. Other information being provided for the examiner's consideration follows: [A/An \_\_\_\_\_ Search Report, dated \_\_\_\_\_, which issued during the prosecution of \_\_\_\_\_ Application No. \_\_\_\_\_ which corresponds to the present application.]

6. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless other-wise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

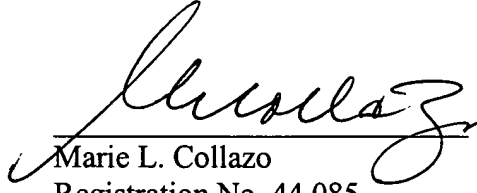
**CROSS REFERENCE UNDER 37 C.F.R. §1.78 TO RELATED APPLICATIONS**

Pursuant to 37 C.F.R. § 1.78, Applicant notes that the above-identified patent application may be related to the following U.S. Patent Applications:

(1) U.S. Patent Application Serial No \_\_\_\_\_, filed \_\_\_\_\_.

Early and favorable consideration is earnestly solicited.

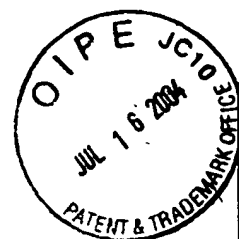
Respectfully submitted,



Marie L. Collazo  
Registration No. 44,085  
Attorney for Applicant(s)

July 16, 2004

DARBY & DARBY P.C.  
805 Third Avenue  
New York, N.Y. 10022  
(212) 527-7700



|   |                      |                  |                          |                        |
|---|----------------------|------------------|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |                      |                  | <b>Complete if Known</b> |                        |
|   | Application Number   | 10/691,355       |                          |                        |
|   | Filing Date          | October 21, 2003 |                          |                        |
|   | First Named Inventor | Thomas E. Palmer |                          |                        |
|   | Art Unit             | N/A              |                          |                        |
|   | Examiner Name        | Not Yet Assigned |                          |                        |
| Sheet   | 1                    | of               | 3                        | Attorney Docket Number |
|   |                      |                  |                          | 08223/0200098-US0      |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |   |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       | AA**                     | US-5,144,663-B1                          | 09-01-1992                     | Kudelski et al.                                    |   |
|                       | BB**                     | US-5,539,450-B1                          | 07-23-1996                     | Kudelski et al.                                    |   |
|                       | CC**                     | US-5,592,212-B1                          | 01-07-1997                     | Handelman  |   |
|                       | DD**                     | US-5,666,412-B1                          | 09-09-1997                     | Handelman et al.                                   |   |
|                       | EE**                     | US-5,774,546-B1                          | 06-30-1998                     | Handelman et al.                                   |   |
|                       | FF**                     | US-5,805,705-B1                          | 09-08-1998                     | Gray et al.  |   |
|                       | GG**                     | US-5,892,900-B1                          | 04-06-1999                     | Ginter et al.                                      |   |
|                       | HH**                     | US-5,917,912-B1                          | 06-29-1999                     | Ginter et al.                                      |   |
|                       | II**                     | US-5,920,861-B1                          | 07-06-1999                     | Hall et al.  |   |
|                       | JJ**                     | US-5,933,498-B1                          | 08-03-1999                     | Schneck et al.                                     |   |
|                       | KK**                     | US-5,949,876-B1                          | 09-07-1999                     | Ginter et al.                                      |   |
|                       | LL**                     | US-6,009,401-B1                          | 12-28-1999                     | Horstmann  |   |
|                       | MM**                     | US-6,021,197-B1                          | 02-01-2000                     | von Willich et al.                                 |   |
|                       | NN**                     | US-6,049,671-B1                          | 04-11-2000                     | Slivka et al.                                      |   |
|                       | OO**                     | US-6,073,256-B1                          | 06-06-2000                     | Sesma  |   |
|                       | PP**                     | US-6,157,721-B1                          | 12-05-2000                     | Shear et al.                                       |   |
|                       | QQ**                     | US-6,185,683-B1                          | 02-06-2001                     | Ginter et al.                                      |   |
|                       | RR**                     | US-6,247,950-B1                          | 06-19-2001                     | Hallam et al.                                      |   |
|                       | SS**                     | US-6,256,668-B1                          | 07-03-2001                     | Slivka et al.                                      |   |
|                       | TT**                     | US-6,285,985-B1                          | 09-04-2001                     | Horstmann  |   |
|                       | UU**                     | US-6,314,409-B2                          | 11-06-2001                     | Schneck et al.                                     |   |
|                       | VV**                     | US-6,389,402-B1                          | 05-14-2002                     | Ginter et al.                                      |   |
|                       | WW**                     | US-6,405,369-B1                          | 06-11-2002                     | Tsuria   |   |
|                       | XX**                     | US-6,466,670-B1                          | 10-15-2002                     | Tsuria et al.                                      |   |
|                       | YY**                     | US-6,587,561-B1                          | 07-01-2003                     | Sered et al.                                       |   |
|                       | ZZ**                     | US-6,634,028-B2                          | 10-14-2003                     | Handelmann   |   |
|                       | AA1**                    | US-6,654,420-B1                          | 11-25-2003                     | Snook  |   |
|                       | BB1**                    | US-4,694,489-B1                          | 09-15-1987                     | Frederiksen  |   |
|                       | CC1**                    | US-5,684,876-B1                          | 11-04-1997                     | Pinder, et al.                                     |   |
|                       | DD1**                    | US-5,878,134-B1                          | 03-02-1999                     | Handelman, et al.                                  |   |
|                       | EE1**                    | US-6,035,037-B1                          | 03-07-2000                     | Chaney   |   |
|                       | FF1**                    | US-6,226,794-B1                          | 05-01-2001                     | Anderson Jr., et al.                               |   |
|                       | GG1**                    | US-6,449,719-B1                          | 09-10-2002                     | Baker  |   |
|                       | HH1**                    | US-2003/0007568-A1                       | 01-09-2003                     | Hamery, et al.                                     |   |
|                       | II1**                    | US-6,459,427-B1                          | 10-01-2002                     | Mao, et al.  |   |
|                       | JJ1**                    | US-6,314,572-B1                          | 11-06-2001                     | LaRocca, et al.                                    |   |
|                       | KK1**                    | US-6,191,782-B1                          | 02-20-2001                     | Mori, et al.                                       |   |
|                       | LL1**                    | US-6,009,116-B1                          | 12-28-1999                     | Bednarek, et al.                                   |   |
|                       | MM1**                    | US-5,758,257-B1                          | 05-26-1998                     | Herz, et al.                                       |   |
|                       | NN1**                    | US-5,621,799-B1                          | 04-15-1997                     | Katta, et al.                                      |   |
|                       | OO1**                    | US-6,654,423-B2                          | 11-25-2003                     | Jeong et al.                                       |   |
|                       | PP1**                    | US-6,651,170-B1                          | 11-18-2003                     | Rix  |   |
|                       | QQ1**                    | US-6,629,243-B1                          | 09-30-2003                     | Kleinman et al.                                    |   |
|                       | RR1**                    | US-6,505,299-B1                          | 01-07-2003                     | Zeng et al.  |   |
|                       | SS1**                    | US-6,409,089-B1                          | 06-25-2002                     | Eskicioglu   |   |
|                       | TT1**                    | US-6,409,080-B2                          | 06-25-2002                     | Kawagishi  |   |
|                       | UU1**                    | US-6,334,213-B1                          | 12-25-2001                     | Li   |   |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
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|   |   |    |                          |                        |                   |
|---|---|----|--------------------------|------------------------|-------------------|
| Substitute for form 1449A/B/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    | <b>Complete if Known</b> |                        |                   |
|   |   |    | Application Number       | 10/691,355             |                   |
|   |   |    | Filing Date              | October 21, 2003       |                   |
|   |   |    | First Named Inventor     | Thomas E. Palmer       |                   |
|   |   |    | Art Unit                 | N/A                    |                   |
|   |   |    | Examiner Name            | Not Yet Assigned       |                   |
| Sheet   | 2 | of | 3                        | Attorney Docket Number | 08223/0200098-US0 |

|  |       |                 |            |                     |  |
|--|-------|-----------------|------------|---------------------|--|
|  | VV1** | US-6,298,441-B1 | 10-02-2001 | Handelmann et al.   |  |
|  | WW1** | US-6,272,636-B1 | 08-07-2001 | Neville et al.      |  |
|  | XX1** | US-6,253,193-B1 | 06-26-2001 | Ginter et al.       |  |
|  | YY1** | US-6,189,097-B1 | 02-13-2001 | Tycksen, Jr. et al. |  |
|  | ZZ1** | US-6,178,242-B1 | 01-23-2001 | Tsuria              |  |
|  | AA2** | US-6,112,181-B1 | 08-29-2000 | Shear et al.        |  |
|  | BB2** | US-6,055,503-B1 | 04-25-2000 | Horstmann           |  |
|  | CC2** | US-6,038,433-B1 | 03-14-2000 | Vegt                |  |
|  | DD2** | US-6,009,525-B1 | 12-28-1999 | Horstmann           |  |
|  | EE2** | US-5,982,891-B1 | 11-09-1999 | Ginter et al.       |  |
|  | FF2** | US-5,939,975-B1 | 08-17-1999 | Tsuria et al.       |  |
|  | GG2** | US-5,923,666-B1 | 07-13-1999 | Gledhill et al.     |  |
|  | HH2** | US-5,920,625-B1 | 07-06-1999 | Davies              |  |
|  | II2** | US-5,915,019-B1 | 06-22-1999 | Ginter et al.       |  |
|  | JJ2** | US-5,883,957-B1 | 03-16-1999 | Moline et al.       |  |
|  | KK2** | US-5,799,089-B1 | 08-25-1998 | Kuhn et al.         |  |
|  | LL2** | US-5,774,527-B1 | 06-30-1998 | Handelman et al.    |  |
|  | MM2** | US-5,640,546-B1 | 06-17-1997 | Gopinath et al.     |  |
|  | NN2** | US-5,590,200-B1 | 12-31-1996 | Nachman et al.      |  |
|  | OO2** | US-5,375,168-B1 | 12-20-1994 | Kudelski            |  |
|  | PP2** | US-5,134,656-B1 | 07-28-1992 | Kudelski            |  |
|  | QQ2** | US-5,067,035-B1 | 11-19-1991 | Kudelski et al.     |  |
|  | RR2** | US-6,219,421-B1 | 04-17-2001 | Backal              |  |

\*\* Pursuant to the Notice issued by the United States Patent and Trademark Office dated July 11, 2003 waiving the requirements of 37 C.F.R. § 1.98(a)(2)(i), a copy/copies of the United States Patent on PTO/SB08 is/are not being submitted.

| FOREIGN PATENT DOCUMENTS |                       |   |                                |   |   |   |
|--------------------------|-----------------------|---|--------------------------------|---|---|---|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
|                          |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |   |   |   |
|                          | 1                     | WO-WO 99/30499-A1   | 06-17-1999                     | Thomson Consumer Electronics, Inc.              |   |   |
|                          | 2                     | EP-EP714204-A1  | 05-29-1996                     | LG Electronics, Inc.                            |   |   |
|                          | 3                     | WO-WO96/32702-A1  | 10-17-1996                     | Smart TV Co.                                    |   |   |
|                          | 4                     | WO-WO99/54453-A1  | 10-28-1999                     | Henriksen, et al.                               |   |   |
|                          | 5                     | WO-WO96/06504-A1  | 02-29-1996                     | Chaney, et al.                                  |   |   |
|                          | 6                     | EP-EP658054-A1  | 06-14-1995                     | News Datacom Ltd.                               |   |   |
|                          | 7                     | WO-WO 01/35571-A2   | 05-17-2001                     | Widvine Technologies, Inc.                      |   |   |
|                          | 8                     | WO-WO 02/21761-A2   | 03-14-2002                     | Widvine Technologies, Inc.                      |   |   |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*\*CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (\*\*) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | 9                     | <a href="http://www.ntt.co.jp/news/news02e/0209/020927.html">http://www.ntt.co.jp/news/news02e/0209/020927.html</a> , September 27, 2002.   |                |

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |                          |                        |                   |
|---|---|----|--------------------------|------------------------|-------------------|
| Substitute for form 1449A/B/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    | <b>Complete if Known</b> |                        |                   |
|   |   |    | Application Number       | 10/691,355             |                   |
|   |   |    | Filing Date              | October 21, 2003       |                   |
|   |   |    | First Named Inventor     | Thomas E. Palmer       |                   |
|   |   |    | Art Unit                 | N/A                    |                   |
|   |   |    | Examiner Name            | Not Yet Assigned       |                   |
| Sheet   | 3 | of | 3                        | Attorney Docket Number | 08223/0200098-US0 |

|    |  |  |
|----|--|--|
| 11 | Video Protection by Partial Content Corruption, C. Griwodz, September 1998.  |  |
| 12 | An Overview of Multimedia Content Protection in Consumer Electronics Devices, Eskicioglu et al.,   |  |
| 13 | Performance Study of a Selective Encryption Scheme for the Security of Networked, Real-Time Video, Spanos et al., 1995.  |  |
| 14 | Goonatilake, Suran, ed. et al., Intelligent Systems for Finance and Business, 1995, chapters 2-10, pp. 31-173.   |  |
| 15 | Irdeto Access and Optibase create Strategic Alliance - 14 December 2000, <a href="http://www.irdetoaccess.com/press/0000041.htm">http://www.irdetoaccess.com/press/0000041.htm</a>   |  |
| 16 | System Security, Streaming Media, S. Blumenfeld, October 2001.   |  |
| 17 | <a href="http://www.cs.unm.edu/~forest/projects.html">http://www.cs.unm.edu/~forest/projects.html</a> , December 2, 2003.  |  |
| 18 | Partial Encryption for Image and Video Communication, H. Cheng, 1998.  |  |
| 19 | A Review of Video Streaming Over the Internet, Hunter et al., December 2, 2003.  |  |
| 20 | Standards Track, Schulzrinne, et al., April 1998, pages 1-86.  |  |
| 21 | <a href="http://www.optibase.com/html/news/December_14_2000.html">http://www.optibase.com/html/news/December_14_2000.html</a> , December 14, 2004.   |  |
| 22 | Omneon Video Networks Product Announcement, Broadband Streaming, pages 1-4.  |  |
| 23 | Yoshida, Kazuhiro, et al., "A Continuous-media Communication Method for Minimizing Playback Interruptions", IS&T/SPIE Conference on Visual Communications and Image Processing, January 1999, San Jose, California, Vol. 3653. |  |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

|                       |  |                    |  |
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| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|